

## Assoc. Prof. ABDULLAH ATEŞ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: V-6929-2018

ScopusID: 57196895937

Yoksis Researcher ID: 56445

### Education Information

Doctorate, University of California, Merced, Mesa Laboratory, Computer Science, United States Of America 2017 - 2018

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2014 - 2018

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2011 - 2014

Undergraduate, Erciyes University, Elektrik Elektronik Mühendisliği, Turkey 2006 - 2011

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, COST 15225 STMS, Tallin University, 2018

Education Management and Planning, COST 15225 Training School, Istanbul Bilisim University, 2018

Education Management and Planning, COST 15225 Training School, Brno University, 2016

Education Management and Planning, SIMATIC WinCC SCADA, SIEMENS, 2014

Education Management and Planning, SIMATIC S7-1200, PLC course, SIEMENS, 2013

### Dissertations

Doctorate, Sezgisel Algoritmalarla Çoklu Denetçi Parametrelerinin Optimizasyonu, Inonu University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2018

Postgraduate, Prototip helikopter sisteminin matematiksel modelinin deneysel belirlenmesi ve denetçi tasarımı, Inonu University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI), 2014

### Research Areas

Computer Sciences, algorithms, Performance Modelling and Evaluation, Equipment, Microprogramming and Control Structure, Artificial Intelligence, Computer Learning and Pattern Recognition, Automated Problem Solving, Theorem

Proving and Logical Reasoning, Engineering and Technology

## Academic Titles / Tasks

Associate Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2022 - Continues  
Assistant Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2018 - 2022  
Research Assistant, University of California, San Francisco, Engineering Faculty, Computer Science, 2017 - 2018  
Research Assistant, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2011 - 2018

## Academic and Administrative Experience

Assistant Director of the Institute, Inonu University, Fen Bilimleri Enstitüsü, 2019 - Continues

## Courses

Sayısal Yöntemler, Undergraduate, 2020-2021  
Biçimsel Diller ve Özdevinirler, Undergraduate, 2020-2021  
Proje Planlama, Undergraduate, 2020-2021  
Metasezgisel Yöntemler, Undergraduate Double Major, 2020-2021  
İleri Dijital Kontrol, Undergraduate Double Major, 2020-2021  
Bitirme Projesi II, Undergraduate, 2020-2021  
Sinyaller ve Sistemler, Undergraduate, 2020-2021  
Bitirme Projesi, Undergraduate, 2020-2021  
Metasezgisel Yöntemler, Undergraduate Double Major, 2019-2020  
Sayısal Yöntemler, Undergraduate, 2019-2020  
Bilgisayar Mühendisliği için MATLAB ve Uygulamaları, Undergraduate, 2019-2020  
İleri Kontrolör Tasarımı, Undergraduate Double Major, 2019-2020  
Biçimsel Diller ve Özdevinirler, Undergraduate, 2019-2020  
Sinyaller ve Sistemler, Undergraduate, 2019-2020  
Dayanıklı Kontrol Sistemleri, Undergraduate Double Major, 2019-2020  
Bitirme Projesi II, Undergraduate, 2019-2020  
Bitirme Projesi, Undergraduate, 2019-2020  
Proje Planlama, Undergraduate, 2019-2020  
Sayısal Yöntemler, Undergraduate, 2018-2019  
Otomatik Kontrol, Undergraduate, 2018-2019  
Sinyaller ve Sistemler, Undergraduate, 2018-2019

## Advising Theses

Ateş A., Enhancement of optimization algorithms' performances in engineering problems via different distribution functions, Postgraduate, M.AKPAMUKÇU(Student), 2021  
Karcı A., Ateş A., Uniform popülasyon ve türeve dayalı meta-sezgisel yeni yöntem geliştirme, Doctorate, E.SEYYARER(Student), 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

1. A novel assessment framework for evaluation of the current implementation level of water and

**wastewater management practices**

Kiliç S., Fırat M., Yılmaz S., Ateş A.

WATER SCIENCE AND TECHNOLOGY: WATER SUPPLY, vol.23, no.5, pp.1787-1809, 2023 (SCI-Expanded)

- II. **Determination of economic loss levels in water distribution systems with different network conditions by a district stochastic optimization algorithm**  
Yılmaz S., Ateş A., Fırat M., Özdemir Ö., Cinal H.  
WATER SCIENCE AND TECHNOLOGY: WATER SUPPLY, vol.23, no.3, pp.1346-1361, 2023 (SCI-Expanded)
- III. **Development and Implementation of a Novel Assessment System for Water Utilities in Strategic Water Loss Management**  
FIRAT M., BOZKURT C., ATEŞ A., YILMAZ S., Özgür Ö.  
JOURNAL OF PIPELINE SYSTEMS ENGINEERING AND PRACTICE, vol.14, 2023 (SCI-Expanded)
- IV. **Analyzing the economic water loss level with a discrete stochastic optimization algorithm by considering budget constraints**  
Yılmaz S., Fırat M., Ateş A., Ozdemir O.  
AQUA-WATER INFRASTRUCTURE ECOSYSTEMS AND SOCIETY, vol.71, no.7, pp.835-848, 2022 (SCI-Expanded)
- V. **Analyzing the economic water loss level with a discrete stochastic optimization algorithm by considering budget constraints**  
Yılmaz S., Fırat M., Ateş A., Özdemir Ö.  
JOURNAL OF WATER SUPPLY: RESEARCH AND TECHNOLOGY - AQUA, vol.71, no.7, pp.835-848, 2022 (SCI-Expanded)
- VI. **Development of a new comprehensive framework for the evaluation of leak management components and practices**  
Bozkurt C., Fırat M., Ateş A.  
AQUA-WATER INFRASTRUCTURE ECOSYSTEMS AND SOCIETY, vol.71, no.5, pp.642-663, 2022 (SCI-Expanded)
- VII. **Defining cost standard and new algorithm for economic leakage level components in water loss management**  
Yılmaz S., Ateş A., Fırat M., Özdemir Ö.  
ACTA SCIENTIARUM - TECHNOLOGY, vol.44, no.1, pp.1-11, 2022 (SCI-Expanded)
- VIII. **Development of current condition assessment and target definition model for water balance practices in sustainable water loss management**  
Bozkurt C., FIRAT M., Yılmaz S., ATEŞ A.  
WATER SUPPLY, vol.22, no.5, pp.5028-5043, 2022 (SCI-Expanded)
- IX. **Modified monarch butterfly optimization with distribution functions and its application for 3 DOF Hover flight system**  
Ateş A., Akpamukçu M.  
NEURAL COMPUTING AND APPLICATIONS, vol.34, no.1, pp.3697-3722, 2022 (SCI-Expanded)
- X. **Optimization to optimization (OtoO): optimize monarchy butterfly method with stochastics multi-parameter divergence method for benchmark functions and load frequency control**  
Ateş A., Akpamukçu M.  
ENGINEERING WITH COMPUTERS, vol.1, no.2, pp.1-20, 2022 (SCI-Expanded)
- XI. **Stokastik ve deterministik hareketlerin optimizasyon süreçlerindeki etkileri**  
Seyyarer E., Karcı A., Ateş A.  
Gazi Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.37, no.2, pp.949-966, 2022 (SCI-Expanded)
- XII. **Analysis of Economic Leakage Level and Infrastructure Leakage Index Indicator by Applying Active Leakage Control**  
Yılmaz S., Fırat M., Ateş A., Ozdemir O.  
JOURNAL OF PIPELINE SYSTEMS ENGINEERING AND PRACTICE, vol.12, no.4, 2021 (SCI-Expanded)
- XIII. **Determination of Economic Leakage Level with Optimization Algorithm in Water Distribution Systems**  
Fırat M., Yılmaz S., Ateş A., Ozdemir O.  
WATER ECONOMICS AND POLICY, vol.07, no.03, 2021 (SCI-Expanded)

- XIV. **Modification of Harris hawks optimization algorithm with random distribution functions for optimum power flow problem**  
Akdag O., ATEŞ A., YEROĞLU C.  
NEURAL COMPUTING & APPLICATIONS, vol.33, no.6, pp.1959-1985, 2021 (SCI-Expanded)
- XV. **Enhanced equilibrium optimization method with fractional order chaotic and application engineering**  
Ateş A.  
Neural Computing & Applications, vol.1, no.1, pp.1-28, 2021 (SCI-Expanded)
- XVI. **Towards Industrialization of FOPID Controllers: A Survey on Milestones of Fractional-Order Control and Pathways for Future Developments**  
Tepļakov A., Alagöz B. B., Yeroğlu C., Gonzalez E., Hosseinnia S., Petlenkov E., Ateş A., Cech M.  
IEEE Access, vol.1, no.1, pp.1-27, 2021 (SCI-Expanded)
- XVII. **DEFINING THE OPTIMUM PRESSURE FOR ACTIVE LEAKAGE CONTROL EFFICIENCY BY CONSIDERING ECONOMIC CRITERIA**  
Yilmaz S., FIRAT M., ATEŞ A., Ozdemir O.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, no.7A, pp.9142-9153, 2021 (SCI-Expanded)
- XVIII. **Fine-Tuning of Feedback Gain Control for Hover Quad Copter Rotors by Stochastic Optimization Methods**  
ATEŞ A., ALAGÖZ B. B., Kavuran G., YEROĞLU C.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, vol.1, no.2, pp.1-10, 2020 (SCI-Expanded)
- XIX. **Modified Artificial Physics Optimization for Multi-parameter Functions**  
ATEŞ A., YEROĞLU C.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, vol.42, no.4, pp.465-478, 2018 (SCI-Expanded)
- XX. **Stability Analysis of Fractional Order Multiple Linear Uncertain Systems: Exposed Edge Sampling Approach**  
ŞENOL B., ATEŞ A., ALAGÖZ B. B., YEROĞLU C.  
CONTROL ENGINEERING AND APPLIED INFORMATICS, vol.20, no.2, pp.14-21, 2018 (SCI-Expanded)
- XXI. **An Experimental Study on Model Reference Adaptive Control of TRMS by Error-Modified Fractional Order MIT Rule**  
Kavuran G., ATEŞ A., ALAGÖZ B. B., YEROĞLU C.  
CONTROL ENGINEERING AND APPLIED INFORMATICS, vol.19, no.4, pp.101-111, 2017 (SCI-Expanded)
- XXII. **Reference-shaping adaptive control by using gradient descent optimizers**  
ALAGÖZ B. B., Kavuran G., ATEŞ A., YEROĞLU C.  
PLOS ONE, vol.12, no.11, 2017 (SCI-Expanded)
- XXIII. **Implementation of fractional order filters discretized by modified Fractional Order Darwinian Particle Swarm Optimization**  
ATEŞ A., ALAGÖZ B. B., Kavuran G., YEROĞLU C.  
MEASUREMENT, vol.107, pp.153-164, 2017 (SCI-Expanded)
- XXIV. **Master-Slave Stochastic Optimization for Model-Free Controller Tuning**  
ATEŞ A., ALAGÖZ B. B., YEROĞLU C.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, vol.41, no.2, pp.153-163, 2017 (SCI-Expanded)
- XXV. **Optimal fractional order PID design via Tabu Search based algorithm**  
ATEŞ A., YEROĞLU C.  
ISA TRANSACTIONS, vol.60, pp.109-118, 2016 (SCI-Expanded)
- XXVI. **Probabilistic robust stabilization of fractional order systems with interval uncertainty**  
ALAGÖZ B. B., YEROĞLU C., ŞENOL B., ATEŞ A.  
ISA TRANSACTIONS, vol.57, pp.101-110, 2015 (SCI-Expanded)
- XXVII. **An experimental investigation for error-cube PID control**  
ALAGÖZ B. B., ATEŞ A., YEROĞLU C., ŞENOL B.

- TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.37, no.5, pp.652-660, 2015 (SCI-Expanded)
- XXVIII. **A stochastic multi-parameters divergence method for online auto-tuning of fractional order PID controllers**  
YEROĞLU C., ATEŞ A.  
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.351, no.5, pp.2411-2429, 2014 (SCI-Expanded)
- XXIX. **A numerical investigation for robust stability of fractional-order uncertain systems**  
ŞENOL B., ATEŞ A., ALAGÖZ B. B., YEROĞLU C.  
ISA TRANSACTIONS, vol.53, no.2, pp.189-198, 2014 (SCI-Expanded)
- XXX. **Auto-tuning of PID controller according to fractional-order reference model approximation for DC rotor control**  
ALAGÖZ B. B., ATEŞ A., YEROĞLU C.  
MECHATRONICS, vol.23, no.7, pp.789-797, 2013 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Revisiting Probabilistic Relation Analysis: Using Probabilistic Relation Graphs for Relational Similarity Analysis of Words in Short Texts**  
Alnahas D., ATEŞ A., AYDIN A. A., ALAGÖZ B. B.  
Turkish Journal of Mathematics and Computer Science, vol.15, no.2, pp.334-354, 2023 (Peer-Reviewed Journal)
- II. **Determination of Economic Apparent Loss Level for Optimal Meter Management in Distribution Systems**  
Yılmaz S., FIRAT M., ATEŞ A., ÖZDEMİR Ö.  
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.6, no.1, pp.342-353, 2023 (Peer-Reviewed Journal)
- III. **Developing a model to evaluate current practice level of key data used in water loss management**  
BOZKURT C., FIRAT M., ATEŞ A.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.29, 2023 (ESCI)
- IV. **Aquila Optimizasyon Algoritmasının Maya Kurutma Kontrolü Üzerinden Performansının İncelenmesi**  
Cavlak Y., Ateş A.  
Fırat Üniversitesi Uzay ve Savunma Teknolojileri Dergisi , vol.1, no.1, pp.288-293, 2022 (Scopus)
- V. **Economic Analysis and Economic Leakage Level in Water Loss Management and Paths for Future Evaluation: A Review**  
Fırat M., Ateş A., Özdemir Ö., Yılmaz S.  
CIVIL ENGINEERING INFRASTRUCTURES JOURNAL, vol.55, no.2, pp.195-209, 2022 (ESCI)
- VI. **Strategic water loss management: Current status and new model for future perspectives**  
Bozkurt C., Fırat M., Ateş A., Yılmaz S., Özdemir Ö.  
Sigma Journal of Engineering and Natural Sciences, vol.40, no.2, pp.1-13, 2022 (ESCI)
- VII. **İçmesuyu Dağıtım Sistemlerinde Arıza Bakım Onarım Süreçlerinin İzlenmesi için Performans Göstergeleri**  
BOZKURT C., FIRAT M., YILMAZ S., ATEŞ A.  
Avrupa Bilim ve Teknoloji Dergisi, pp.126-134, 2022 (Peer-Reviewed Journal)
- VIII. **Optimizasyonun Optimizasyonu Yaklaşımıyla Dağılım Fonksiyonu Tabanlı Kral Kelebeği Optimizasyon Algoritmasının Performansının Artırılması**  
Akpamukçu M., Ateş A.  
Bilgisayar Bilimleri, vol.1, pp.100-108, 2021 (Scopus)
- IX. **Development of Calculation Tools for Economic Analysis Active Leakage Control and District Metered Area Methods Applied in Water Loss Management**

Yılmaz S., Fırat M., Özdemir Ö., Ateş A.

Konya Mühendislik Bilimleri Dergisi, vol.9, no.2, pp.467-478, 2021 (Peer-Reviewed Journal)

- X. **ENDÜSTRİYEL BİYOLOJİK FERMANTASYON İŞLEMİ İÇİN DENGE OPTİMİZASYON ALGORİTMASIYLA KONTROLÖR TASARIMI**  
ATEŞ A.  
Konya Journal of Engineering Sciences, vol.9, no.1, pp.164-179, 2021 (Peer-Reviewed Journal)
- XI. **Performance Analysis of SMDO Method with Benchmark Functions with Matlab Toolbox**  
AKPAMUKÇU M., ATEŞ A., ALAGÖZ B. B.  
Journal of the Institute of Science and Technology, vol.10, no.4, pp.2451-2460, 2020 (Peer-Reviewed Journal)
- XII. **Analyzing of Usage Effect of the Distribution Functions for SMDO Algorithm via Benchmark Function with Matlab Toolbox**  
AKPAMUKCU M., ATEŞ A.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.11, no.3, pp.989-998, 2020 (Peer-Reviewed Journal)
- XIII. **Harris Şahini Optimizasyon Algoritması ile Aktif Güç Kayıplarının Minimizasyonu**  
AKDAĞ O., ATEŞ A., YEROĞLU C.  
Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, vol.22, no.65, pp.481-490, 2020 (Peer-Reviewed Journal)
- XIV. **Multi-loop Model Reference Adaptive PID Control for Fault-Tolerance**  
ALAGÖZ B. B., KAVURAN G., ATEŞ A., YEROĞLU C., ALİSOY H.  
BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, vol.7, no.3, pp.276-285, 2019 (Peer-Reviewed Journal)
- XV. **Time-domain identification of One Noninteger Order Plus Time Delay models from step response measurements**  
ALAGÖZ B. B., TEPLJAKOV A., ATEŞ A., PETLENKOV E., YEROĞLU C.  
INTERNATIONAL JOURNAL OF MODELING SIMULATION AND SCIENTIFIC COMPUTING, vol.10, no.1, 2019 (ESCI)
- XVI. **Effects of fractional order integration on ASDM signals**  
Kavuran G., YEROĞLU C., ATEŞ A., ALAGÖZ B. B.  
International Journal of Dynamics and Control, vol.5, no.1, pp.10-17, 2017 (Scopus)
- XVII. **Kesir dereceli model referans denetleyici ile görüntü işleme destekli nesne takip uygulaması**  
Kavuran G., ATEŞ A., ALAGÖZ B. B., YEROĞLU C.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.22, pp.659-665, 2016 (Peer-Reviewed Journal)
- XVIII. **SMDO algoritması ile iki serbestlik dereceli FOPID kontrol çevrimi tasarımı**  
ATEŞ A., YEROĞLU C.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.22, pp.671-676, 2016 (Peer-Reviewed Journal)
- XIX. **Implementation of Model Reference Adaptive Controller with Fractional Order Adjustment Rules for Coaxial Rotor Control Test System**  
Kavuran G., ALAGÖZ B. B., ATEŞ A., YEROĞLU C.  
BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, vol.4, pp.84-88, 2016 (Peer-Reviewed Journal)
- XX. **Online Tuning of Two Degrees of Freedom Fractional Order Control Loops**  
ATEŞ A., YEROĞLU C.  
BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, vol.4, pp.5-10, 2016 (Peer-Reviewed Journal)
- XXI. **Two degrees of freedom FOPID control loop design via SMDO algorithm**  
ATEŞ A., YEROĞLU C.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, no.8, pp.671-676, 2016 (ESCI)
- XXII. **Image processing based object tracking application with fractional-order model reference controller**  
Kavuran G., ATEŞ A., ALAGOZ B. B., YEROĞLU C.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, no.8, pp.659-665, 2016 (ESCI)
- XXIII. **Fuzzy Velocity and Fuzzy Acceleration in Fractional Order Motion**

## Books & Book Chapters

### I. Fractional Order Filter Discretization by Particle Swarm Optimization Method

İMİK O., ALAGÖZ B. B., ATEŞ A., YEROĞLU C.

in: Mathematical Methods in Engineering, Taş K., Baleanu D., Machado T., Editor, Springer-Verlag , Cham, pp.133-144, 2019

## Refereed Congress / Symposium Publications in Proceedings

### I. Comparison of Cost and Benefit Analysis of Active Leakage Control Applications in Water Distribution Systems

ATEŞ A., YILMAZ S., FIRAT M.

International Conference on Science, Engineering Management and Information Technology, 14 - 15 September 2023, pp.262-271

### II. Benefit and Cost Analysis of Network and Service Connection Renewal in Distribution Systems for Sustainable Water Loss Management

YILMAZ S., ATEŞ A., FIRAT M.

International Conference on Science, Engineering Management and Information Technology, 14 - 15 September 2023, pp.272-281

### III. DETERMINATION OF THE MOST APPROPRIATE SOLUTION FOR IMPROVING THE CURRENT SITUATION OF ADMINISTRATIONS IN THE SCOPE OF WATER LOSS MANAGEMENT WITH A WEB BASED CALCULATION TOOL

BOZKURT C., FIRAT M., ATEŞ A.

II. International Conference on Engineering Sciences, 21 - 22 September 2023, pp.360-371

### IV. Improving Equilibrium Optimization Algorithm Performance with Optimization to Optimization Approach

Akpamukçu M., Ateş A.

ASYU, Antalya, Turkey, 7 - 09 September 2022, vol.1, pp.1-6

### V. Fractional Order Chaotic Model Based Enhanced Equilibrium Optimization Algorithm for Controller Design of 3 DOF Hover Flight System

Ateş A., Chen Y.

ASME 2021 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Ohio, United States Of America, 17 - 21 August 2021, pp.1-6

### VI. Value Set-Based Numerical Analysis of Robust Stability for Fractional-Order Retarded Quasi-Polynomials with Uncertain Parameters and Uncertain Fractional Orders

Mathuso R., Şenol B., Alagöz B. B., Ateş A.

CoMeSySo 2021: Data Science and Intelligent Systems , Zlin, Czech Republic, 22 - 26 July 2021, pp.8-23

### VII. Fractional Order Filter Discretization With Marine Predators Algorithm.

Ateş A., Chen Y.

ASME 2021 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Ohio, United States Of America, 17 - 21 August 2021, pp.1-5

### VIII. FARKLI DAĞILIM FONKSİYONLARININ DENGE OPTİMİZASYON ALGORİTMASINDA KULLANILMASI ATEŞ A.

International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 22 February 2021, pp.1-10

- IX. USAGE OF QUNATUM RANDOM GENERATOR WITH STOCHASTIC MULTI PARAMETER DIVERGENCE OPTIMIZATION METHODS AND ITS ENGINEERING APPLICATION**  
ATEŞ A.  
5th The International Engineering and Natural Sciences Conference 2020 (IENSC2020), Diyarbakır, Turkey, 5 - 06 October 2020, pp.1-9
- X. Farklı Sensörlerle Yanıcı Gazların Ölçülmesi ve Dinamik Modellenmesi**  
ATEŞ A., Kırçıl Ö., Anmaz S., Mafratoğlu B., Babaoğlu H.  
International Conference on Artificial Intelligence and Data Processing, Malatya, Turkey, 21 - 22 September 2019, vol.7, no.1, pp.1-6
- XI. Fractional Order Model Identification of Receptor-Ligand Complexes Formation by Equivalent Electrical Circuit Modeling**  
ATEŞ A., ALAGÖZ B. B., Tepljakov A., Petlenkov E., YEROĞLU C., Kuznetsov A., Sobolev I.  
International Conference on Artificial Intelligence and Data Processing, Malatya, Turkey, 21 - 22 September 2019, vol.7, no.1, pp.1-6
- XII. Optimal Fractional Order PID Controller Design for Fractional Order Systems by Stochastic Multi Parameter Divergence Optimization Method with Different Random Distribution Functions**  
ATEŞ A., ALAGÖZ B. B., Chen Y. Q., YEROĞLU C., HosseinNia S. H.  
7th IEEE International Conference on Control, Mechatronics and Automation (ICCMA), Delft, Netherlands, 6 - 08 November 2019, no.2, pp.9-14
- XIII. Fractional Order Filter Discretization by Particle Swarm Optimization Method**  
Imik O., ALAGÖZ B. B., ATEŞ A., YEROĞLU C.  
International Symposium on Mathematical Methods in Engineering (MME), Ankara, Turkey, 27 - 29 April 2017, vol.23, pp.133-144
- XIV. Optimization of the FO[PI] Controller for MTDS using MAPO with Multi Objective Function**  
Ateş A., Yeroğlu C., Yuan J., Chen Y., Hamamcı S. E.  
The International Conference on Fractional Differentiation and its Applications, Amman, Jordan, 16 - 18 July 2018
- XV. Optimization of the FO[PI] Controller for MTDS using MAPO with Multi Objective Function**  
Ateş A., YEROĞLU C., Yuan J., Hamamcı S. E., Chen Y.  
ICFDA'18 International Conference on Fractional Differentiation and its Applications, Amman, Jordan, 16 - 18 July 2018, pp.1-6
- XVI. PID2018 Benchmark Challenge: Model-based Feedforward Compensator with A Conditional Integrator**  
Yuan J., ATEŞ A., Dehghan S., Zhao Y., Fei S., Chen Y.  
3rd IFAC Conference on Advances in Proportional-Integral-Derivative Control (PID), Ghent, Belgium, 9 - 11 May 2018, vol.51, pp.888-893
- XVII. PID2018 Benchmark Challenge: Multi-Objective Stochastic Optimization Algorithm**  
ATEŞ A., Yuan J., DEHGHAN S., ZHAO Y., YEROĞLU C., Chen Y.  
3rd IFAC Conference on Advances in Proportional-Integral-Derivative Control (PID), Ghent, Belgium, 9 - 11 May 2018, vol.51, pp.877-881
- XVIII. PID2018 Benchmark Challenge: Model Predictive Control With Conditional Integral Control Using A General Purpose Optimal Control Problem Solver - RIOTS**  
Dehghan S., Zhao T., Zhao Y., Yuan J., ATEŞ A., Chen Y.  
3rd IFAC Conference on Advances in Proportional-Integral-Derivative Control (PID), Ghent, Belgium, 9 - 11 May 2018, vol.51, pp.882-887
- XIX. PID2018 Benchmark Challenge: learning feedforward control**  
Zhao Y., Dehghan S., ATEŞ A., Yuan J., Zhou F., Li Y., Chen Y.  
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## Supported Projects

Fırat M., Özdemir Ö., Ateş A., Yılmaz S., Usluler M., TUBITAK Project, İçmesuyu Dağıtım Sistemlerinde İşletme Verimliliğinin Sağlanması için Optimizasyon Algoritması ile İzole Ölçüm Bölgesi İşletme ve Sızıntı Yönetim Modelinin Geliştirilmesi, 2022 - 2025

Fırat M., Ateş A., Özdemir Ö., TUBITAK Project, Su Kayıp Yönetimi ve Kontrolü için Optimizasyon Tabanlı En Uygun Strateji Modelinin Geliştirilmesi, 2021 - 2022

BOZTEPE C., ERDOĞAN A., ATEŞ A., Project Supported by Higher Education Institutions, Manyetik Alana duyarlı akıllı hidrojenlerin sentezlenmesi karakterizasyonu ve manyetik alan altındaki şişme büzülme davranışlarının yapay zeka teknikleri ile modellenmesi, 2020 - 2021

FIRAT M., ATEŞ A., YILMAZ S., YÜCEER A. M., ÖZDEMİR Ö., BOZTAŞ F., DURMUŞÇELEBİ F. M., KILINÇ Y., Project Supported by Higher Education Institutions, Su Dağıtım Sistemlerinde Su Kayıplarının Azaltılması için Su Kayıp Yönetimi Modelinin Geliştirilmesi, 2018 - 2021

Yeroğlu C., Alagöz B. B., TUBITAK Project, Rotor Kontrolü İçin Gömülü Programlama İle Kesir Dereceli Model Referans Uyarlamalı Denetçi Tasarımı, 2016 - 2017

## Metrics

Publication: 99

Citation (WoS): 377

Citation (Scopus): 282

H-Index (WoS): 10

H-Index (Scopus): 7

## Scholarships

2214A Doktora Araştırma Bursu, TUBITAK, 2017 - 2018

## Awards

Ateş A., Mühendislik Fakültesi Uluslararası Yayın Kategorisi Genç Araştırmacı Ödülü, İnönü Üniversitesi, January 2023

Ateş A., Mühendislik Fakültesi Uluslararası H Index Kategorisi Genç Araştırmacı Ödülü, İnönü Üniversitesi, January 2023

Fırat M., Ateş A., Yılmaz S., Özdemir Ö., Su Kayıp Yönetiminde Ekonomik Kaçak Seviyesinin Optimizasyon Algoritmalarıyla Belirlenmesi, Su Yönetiminde Başarılı Projeler Ve Yenilikçi Ürünler Ödül Programı (Water Loss Forum Türkiye Komisyonu), November 2022

## Non Academic Experience

University of California Merced